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File: DWPI

Dec 26, 2000

DERWENT-ACC-NO: 2001-205246

DERWENT-WEEK: 200203

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TITLE: Thermal transfer material for printer, consists of thermal conversion layer and image forming layer which has specific smoothness and average surface roughness

INVENTOR: TAKAHASHI, Y

PATENT-ASSIGNEE:

ASSIGNEE

FUJI PHOTO FILM CO LTD

CODE

FUJF

PRIORITY-DATA: 1999JP-0167406 (June 14, 1999)

## PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
JP 2000355177 A	December 26, 2000		014	B41M005/40
US 6326121 B1	December 4, 2001		000	G03F007/34

## APPLICATION-DATA:

PUB-NO	APPL-DATE	APPL-NO	DESCRIPTOR
JP2000355177A	June 14, 1999	1999JP-0167406	
US 6326121B1	June 13, 2000	2000US-0592811	

INT-CL (IPC): B41 J 2/435; B41 M 5/26; B41 M 5/40; G03 B 27/60; G03 F 7/09; G03 F 7/34

ABSTRACTED-PUB-NO: JP2000355177A

## BASIC-ABSTRACT:

NOVELTY - Light and heat conversion layer and an image forming layer formed on the support structure, are laminated. The smoothness of the image forming layer surface is 2 mmHgs or less and its central line average surface roughness Ra' is 0.03-0.2 mu m. The liquid applied for lamination has pigment particles in which particles size of 3% of particles in total weight is 1 mu m or more.

DETAILED DESCRIPTION - An INDEPENDENT CLAIM is also included for laser thermal transfer recording method which involves irradiating multi-mode semiconductor laser on the thermal conversion layer whose material is adhered to image forming layer material by vacuum pressure reduction method, to form the image in the image forming layer during which the lamination and thermal transfer layer are peeled off.

USE - For printer, recorder, facsimile connected to computer. Also for medical treatment.

ADVANTAGE - Gap between thermal transfer image receiver material is not generated, by performing uniform adhesion, thereby image is uniformly transferred from the layer. High resolution image is formed at high speed by using multi-mode semiconductor laser.

ABSTRACTED-PUB-NO:

US 6326121B

## EQUIVALENT-ABSTRACTS:

NOVELTY - Light and heat conversion layer and an image forming layer formed on the support structure, are laminated. The smoothness of the image forming layer surface is 2 mmHgs or less and its central line average surface roughness Ra' is 0.03-0.2  $\mu$  m. The liquid applied for lamination has pigment particles in which particles size of 3% of particles in total weight is 1  $\mu$  m or more.

DETAILED DESCRIPTION - An INDEPENDENT CLAIM is also included for laser thermal transfer recording method which involves irradiating multi-mode semiconductor laser on the thermal conversion layer whose material is adhered to image forming layer material by vacuum pressure reduction method, to form the image in the image forming layer during which the lamination and thermal transfer layer are peeled off.

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CHOSEN-DRAWING: Dwg.0/0

TITLE-TERMS: THERMAL TRANSFER MATERIAL PRINT CONSIST THERMAL CONVERT LAYER IMAGE FORMING LAYER SPECIFIC SMOOTH AVERAGE SURFACE ROUGH

DERWENT-CLASS: G05 P75 P82 P84 T04

CPI-CODES: G05-F01;

EPI-CODES: T04-G03B;

SECONDARY-ACC-NO:

CPI Secondary Accession Numbers: C2001-061354

Non-CPI Secondary Accession Numbers: N2001-146698